

United States Patent [19]

Hill

[11]

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[54] METHOD FOR UPDATING A REMOTE **COMPUTER**

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[56] References Cited

U.S. PATENT DOCUMENTS

3,653,001	3/1972	Ninke 345/432	2
4,091,448	5/1978	Clausing 235/379	•
4,186,438	1/1980	Benson et al 364/222.81	l

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

2 105 075 3/1983 United Kingdom.

OTHER PUBLICATIONS

IBM, IBM Publishing Systems BookMaster, User's Guide, Release 2.0, Third Edition, Jan. 1989, pp. 315-328. Satyanarayanan, Scalable, Secure, and Highly Available Distributed File Access, IEEE Computer, May 1990, pp.

Stix, The Shop-At-Home Gamble, Computer Decisions, Oct. 7, 1986, pp. 28-36.

Rothfeder, How Long Will Prodigy Be A Problem Child, Business Week, Sep. 10, 1990, p. 75.

Warner, Adventures in the On-Line Universe, Business Week, Jun. 17, 1991, pp. 112-113.

Lindsay, Single and Multi-Site Recovery Facilities, Distributed Databases, Chapter 10, 1980.

Blasgen et al., System R: An Architectural Update, Computer Science Research Report RJ2581, IBM Research Division, Jun. 1979.

Antonoff, The Prodigy Promise, Personal Computing, May 1989, pp.67-73.

Gray et al., The Recovery Manager of the System R Database Manager, Computing Surveys, vol. 13, No. 2, Jun. 1981, pp. 223-242.

Mohan et al., Efficient Commit Protocols for the Tree of Processes Model of Distributed Transactions, Proceedings of the Second ACM Symposium on Principles of Distributed Computing, 1983.

(List continued on next page.)

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ABSTRACT

A method for accessing product information data includes storing product data including graphics data and textual data related to a plurality of products in a memory of a main computer, storing a first subset of product data including graphics data related to at least one product in a memory of the remote computer, and transmitting a data request query related to a selected product from the remote computer to the main computer. The method also includes identifying a second subset of product data related to the selected product stored in the memory of the main computer based on the data request query; transmitting textual data from second subset of product data from the main computer to the remote computer, transmitting only updated graphics data from the main computer to the remote computer, storing the updated graphics data in the memory of the remote computer, and combining the textual data received from the main computer with graphics data stored in the memory of the remote computer to provide complete product information data related to the selected product.

20 Claims, 19 Drawing Sheets

CUSTOMER'S COMPUTER MEMORY

